

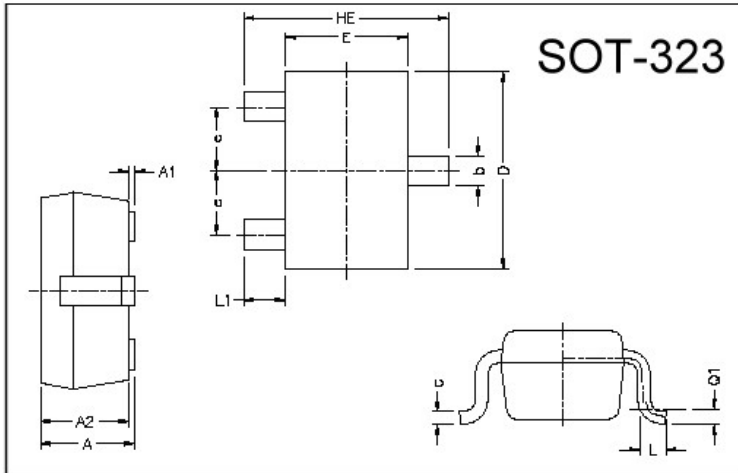
GSMBTA44

NPN EPITAXIAL PLANAR TRANSISTOR

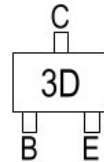
Description

The GSMBTA44 is designed for application requires high voltage.

Package Dimensions



Marking :



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	0.80	1.10	L1	0.42 REF.	
A1	0	0.10	L	0.15	0.35
A2	0.80	1.00	b	0.25	0.40
D	1.80	2.20	c	0.10	0.25
E	1.15	1.35	e	0.65 REF.	
HE	1.80	2.40	Q1	0.15 BSC.	

Absolute Maximum Ratings at Ta = 25°C

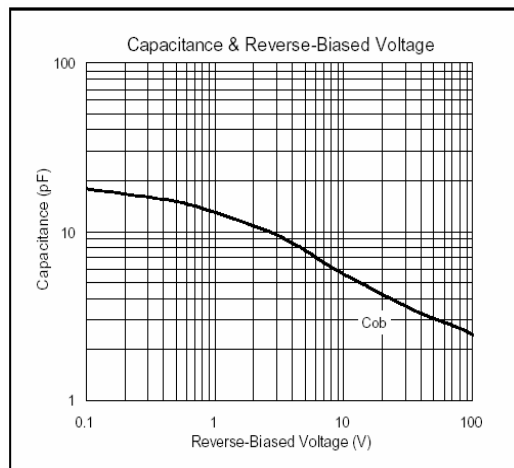
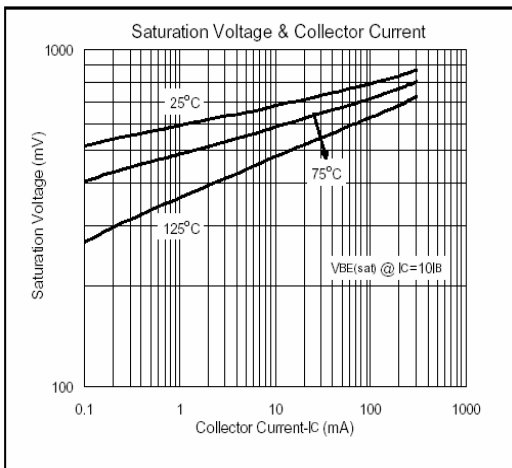
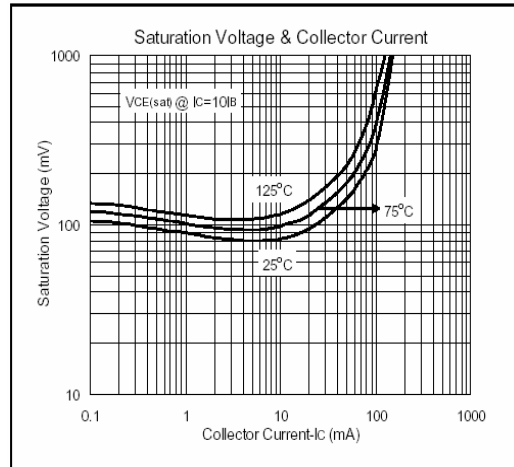
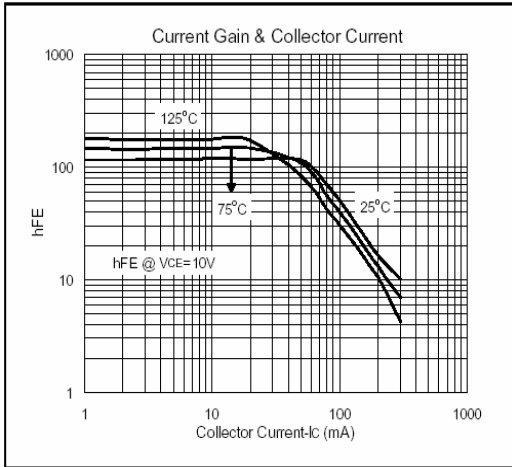
Parameter	Symbol	Ratings	Unit
Junction Temperature	Tj	+150	°C
Storage Temperature	Tstg	-55~+150	°C
Collector to Base Voltage	VCBO	500	V
Collector to Emitter Voltage	VCEO	400	V
Emitter to Base Voltage	VEBO	6	V
Collector Current	Ic	300	mA
Total Power Dissipation	Pd	350	mW

Electrical Characteristics (Ta = 25°C, unless otherwise noted)

Symbol	Min.	Typ.	Max.	Unit	Test Conditions
BV _{CB0}	500	-	-	V	I _C =100μA, I _E =0
BV _{CE0}	400	-	-	V	I _C =1mA, I _B =0
BV _{EB0}	6	-	-	V	I _E =10μA, I _C =0
I _{CB0}	-	-	100	nA	V _{CB} =400V, I _E =0
I _{EB0}	-	-	100	nA	V _{EB} =4V, I _C =0
I _{CES}	-	-	500	nA	V _{CE} =400V, I _B =0
*V _{CE(sat)1}	-	-	375	mV	I _C =20mA, I _B =2mA
*V _{CE(sat)2}	-	-	750	mV	I _C =50mA, I _B =5mA
*V _{BE(sat)}	-	-	750	mV	I _C =10mA, I _B =1mA
*h _{FE1}	40	-	-		V _{CE} =10V, I _C =1mA
*h _{FE2}	40	-	-		V _{CE} =10V, I _C =10mA
*h _{FE3}	45	-	-		V _{CE} =10V, I _C =50mA
*h _{FE4}	40	-	-		V _{CE} =10V, I _C =100mA
C _{ob}	-	4	6	pF	V _{CB} =20V, I _E =0, f=1MHz

* Pulse Test: Pulse Width ≤ 380μs, Duty Cycle ≤ 2%

Characteristics Curve



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